

OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/005,842

DATE: 01/24/2002 TIME: 10:03:46

Input Set : N:\Crf3\RULE60\10005842.raw Output Set: N:\CRF3\01242002\J005842.raw

SEQUENCE LISTING

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ENTERED
        (1) GENERAL INFORMATION:
              (i) APPLICANT: Ni, Jian
                             Gentz, Reiner
      7
                             Yu, Guo-Liang
      8
                             Su, Jeffrey
      9
                             Rosen, Craig A.
            (ii) TITLE OF INVENTION: Death Domain Containing Receptor 5
     11
     13
            (iii) NUMBER OF SEQUENCES: 12
     15
            (iv) CORRESPONDENCE ADDRESS:
     16
                   (A) ADDRESSEE: Human Genome Sciences, Inc.
     17
                   (B) STREET: 9410 Key West Avenue
     18
                   (C) CITY: Rockville
     19
                  (D) STATE: MD
     20
                  (E) COUNTRY: US
     21
                  (F) ZIP: 20850
     23
             (V) COMPUTER READABLE FORM:
     24
                  (A) MEDIUM TYPE: Floppy disk
     25
                  (B) COMPUTER: IBM PC compatible
     26
                  (C) OPERATING SYSTEM: PC-DOS/MS-DOS
     27
                  (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
     29
            (vi) CURRENT APPLICATION DATA:
C--> 30
                  (A) APPLICATION NUMBER: US/10/005,842
C--> 31
                  (B) FILING DATE: 07-Dec-2001
     32
                  (C) CLASSIFICATION:
     38
           (Vii) PRIOR APPLICATION DATA:
     35
                  (A) APPLICATION NUMBER: 09/042,583
    36
                  (B) FILING DATE:
    39
                  (A) APPLICATION NUMBER: US 60/040,846
    40
                  (B) FILING DATE: 17-MAR-1997
    42
          (viii) ATTORNEY/AGENT INFORMATION:
    43
                  (A) NAME: Hoover, Kenley
    44
                  (B) REGISTRATION NUMBER: 40,302
    45
                  (C) REFERENCE/DOCKET NUMBER: PF366
    47
            (ix) TELECOMMUNICATION INFORMATION:
    48
                  (A) TELEPHONE: 3013098504
    49
                  (B) TELEFAX: 3013098439
    52 (2) INFORMATION FOR SEQ ID NO: 1:
    54
            (i) SEQUENCE CHARACTERISTICS:
    55
                 (A) LENGTH: 1600 base pairs
    56
                 (B) TYPE: nucleic acid
    57
                 (C) STRANDEDNESS: single
    58
                 (D) TOPOLOGY: linear
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DATE: 01/24/2002 TIME: 10:03:46

60					LE T	YPE:	DNA	(ge	nomi	C)							
63		(ix		ATURI													
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71		(ix)		ATURI													
72					AME/I												
73					CAT												
76		(xi)	SEC	QUENC	CE DE	ESCRI	[PTI	ON: S	SEQ :	ID NO	D: 1:						
78	CAC	CGT	CCG (CGGGC	CGCGG	SC CC	GAG	AACC	CGG	CAAT	CTTT	GCGC	CCAC	CAA A	ATA	CACCG	A 60
80	80 CGATGCCCGA TCTACTTTAA GGGCTGAAAC CCACGGGCCT GAGAGACTAT AAGAGCGTTC 82 CCTACCGCC ATG GAA CAA CGG GGA CAG AAC GCC CCG GCC GCT TCG GGG															120	
82	CCT	CCGC	C AI	rg ga	AA CA	AA CG	GG GC	SA CA	AG AZ	AC GO	CC CC	CG GC	CC GC	T TC	CG GG	G	168
	Met Glu Gln Arg Gly Gln Asn Ala Pro Ala Ala Ser Gly																
	84 -51 -50 -45 -40 86 GCC CGG AAA AGG CAC GGC CCA GGA CCC AGG GAG GCG GGA GCC AGG																
86	GCC	CGG	AAA	AGG	CAC	GGC	CCA	GGA	CCC	AGG	GAG	GCG	CGG	GGA	GCC	AGG	216
	Ala	Arg	Lys		His	Gly	Pro	Gly	Pro	Arg	Glu	Ala	Arg	Gly	Ala	Arg	
88				-35					-30					-25			
90	CCT	GGG	CCC	CGG	GTC	CCC	AAG	ACC	CTT	GTG	CTC	GTT	GTC	GCC	GCG	GTC	264
91	Pro	Gly		Arg	Val	Pro	Lys	Thr	Leu	Val	Leu	Val	Val	Ala	Ala	Val	
92			-20					-15					-10				
94	CTG	CTG	TTG	GTC	TCA	GCT	GAG	TCT	GCT	CTG	ATC	ACC	CAA	CAA	GAC	CTA	312
95	Leu		Leu	Val	Ser	Ala	Glu	Ser	Ala	Leu	Ile	Thr	Gln	Gln	Asp	Leu	
96		- 5					1				5					10	
98	GCT	CCC	CAG	CAG	AGA	GCG	GCC	CCA	CAA	CAA	AAG	AGG	TCC	AGC	CCC	TCA	360
99	Ala	Pro	Gln	Gln	Arg	Ala	Ala	Pro	Gln	Gln	Lys	Arg	Ser	Ser	Pro	Ser	
100	9 Ala Pro Gln Gln Arg Ala Ala Pro Gln Gln Lys Arg Ser Ser Pro Ser 00 25 02 GAG GGA TTG TGT CCA CCT GGA CAC CAT ATC TCA GAA GAC GGT AGA GAT																
102	GAG	GGA	TTG	TGT	CCA	CCT	GGA	CAC	CAI	ATC	TCA	GAA	GAC	GGT	AGA	GAT	408
103	Glu	Gly	Leu			Pro	Gly	His	His	Ile	Ser	Glu	Asp	Gly	Arg	Asp	
104				30					35					40			
106	TGC	ATC	TCC	TGC	AAA	TAT	GGA	CAG	GAC	LAT:	AGC	ACT	CAC	TGG	AAT	GAC	456
107	Cys	Ile	Ser	Cys	Lys	Tyr	Gly	Gln	Asp	Tyr	Ser	Thr	His	Trp	Asn	Asp	
108			45					50					55				
110	CTC	CTT	TTC	TGC	TTG	CGC	TGC	ACC	AGG	TGI	GAT	TCA	GGT	GAA	GTG	GAG	504
111	Leu	Leu	Phe	Cys	Leu	Arg			Arg	Cys	Asp	Ser	Gly	Glu	Val	Glu	
112		60					65					70					
114	CTA	AGT	CCC	TGC	ACC	ACG	ACC	AGA	AAC	ACA	GTG	TGT	CAG	TGC	GAA	GAA	552
115	Leu	Ser	Pro	Cys	Thr	Thr	Thr	Arg	Asn	Thr	· Val	Cys	Gln	Cys	Glu	Glu	
116						80					85					90	
118	GGC	ACC	TTC	CGG	GAA	GAA	GAT	TCT	CCT	GAG	ATG	TGC	CGG	AAG	TGC	CGC	600
119	GТĀ	Thr	Phe	Arg	Glu	Glu	Asp	Ser	Pro	Glu	Met	Cys	Arg	Lys	Cys	Arg	
120					95					100					105		
122	ACA	GGG	TGT	CCC	AGA	GGG	ATG	GTC	AAG	GTC	GGT	GAT	TGT	ACA	CCC	TGG	648
123	Thr	Gly	Cys	Pro	Arg	Gly	Met	Val	Lys	Val	Gly	Asp	Cys	Thr	Pro	\mathtt{Trp}	
124				110					115					120			
126	AGT	GAC	ATC	GAA	TGT	GTC	CAC	AAA	GAA	TCA	GGC	ATC	ATC	ATA	GGA	GTC	696
127	Ser	Asp	Ile	Glu	Cys	Val	His	Lys	Glu	Ser	Gly	Ile	Ile	Ile	Gly	Val	
128			125					130					135				



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130 A		amm	CCA	ccc	СПЛ	ርሞC	ጥጥር	Δጥጥ	GTG	GCT	GTG	TTT	GTT	TGC	AAG	TCT	744
130 A 131 T	ACA	GTT	TA Ta	Δla	Val	Val	Leu	Ile	Val	Ala	Val	Phe	Val	Cys	Lys	Ser	
122		140					145					150					
132 134 T	ע יחים	CTC	тсс	AAG	AAA	GTC	CTT	CCT	TAC	CTG	AAA	GGC	ATC	TGC	TCA	GGT	792
135 I	ום	Leu	Trp	Lvs	Lvs	Val	Leu	Pro	Tyr	Leu	Lys	Gly	Ile	Cys	Ser	GIY	
126 1	155					160					TOD					170	
120 0	CT.	GGT	GGG	GAC	CCT	GAG	CGT	GTG	GAC	AGA	AGC	TCA	CAA	CGA	CCT	GGG	840
139 6	30 r	Glv	Glv	Asp	Pro	Glu	Arg	Val	Asp	Arg	Ser	Ser	Gln	Arg	PIO	Gly	
1 4 0					175					TRO					103		000
142 (GCT	GAG	GAC	AAT	GTC	CTC	AAT	GAG	ATC	GTG	AGT	ATC	TTG	CAG	CCC	ACC	888
142 G	Ala	Glu	Asp	Asn	Val	Leu	Asn	Glu	He	Val	Ser	Ile	Leu	GIII	Pro	Tnr	
1 4 4				190					195					200			936
144	CAG	GTC	CCT	GAG	CAG	GAA	ATG	GAA	GTC	CAG	GAG	CCA	GCA	GAG	Dro	mbr	550
147 (Gln	Val	Pro	Glu	Gln	Glu	Met	Glu	Val	GIn	GIU	Pro	Ald	GIU	PIO	TIIT	
148			205					210		m < 3	030	O A ID	215	CTC	CAA	CCG	984
150 (GGT	GTC	AAC	ATG	TTG	TCC	CCC	GGG	GAG	TCA	Clu	Uic	LAU	T.AII	Glu	Pro	201
151 (Gly		Asn	Met	Leu	Ser	Pro	GTÄ	GIU	Ser	GIU	230	nea	пец	Giu	110	
152		220				mam	225	3.00	N.C.C	N.C.C	СТС		Gጥጥ	CCA	GCA	AAT	1032
154	GCA	GAA	GCT	GAA	AGG	TCT	CAG	AGG	AGG	AGG	T.OII	T.en	Val	Pro	Ala	Asn	
155		Glu	Ala	GIu	Arg		GIII	Arg	AIG	мту	245	шси	,			250	
156 : 158 (235		a	000	3 CI	240	አርጥ	CTG	AGA	CAG			GAT	GAC	TTT	GCA	1080
158 (159 (GAA	GGT	GAT	CCC	ACT	Clu	Thr	T.OII	Ara	Gln	Cvs	Phe	Asp	Asp	Phe	Ala	
	GIU	GIY	ASP	PIO	255	GIU	1111	пси	**** 9	260	-1-		_		265		
160 162	a 2 a	mmc	CTC	ccc	ጥጥጥ	GAC	TCC	TGG	GAG		CTC	ATG	AGG	AAG	TTG	GGC	1128
163	GAC	TIG	Mal Gro	Dro	Dhe	Asp	Ser	Trp	Glu	Pro	Leu	Met	Arg	Lys	Leu	Gly	
1 (4				270					275					200			
166	ርጥር	ΑТС	GAC	דעע	GAG	ATA	AAG	GTG	GCT	AAA	GCI	GAG	GCA	GCG	GGC	CAC	1176
167	Leu	Met	Asp	Asn	Glu	Ile	Lys	Val	Ala	Lys	Ala	Glu	LAId	. Ата	Gly	His	
160			285					290					290)			1004
170	AGG	GAC	ACC	TTG	TAC	ACG	ATG	CTG	ATA	AAG	TGG	GTC	: AAC	: AAA	ACC	GGG	1224
171	Arq	Asp	Thr	Leu	Tyr	Thr	Met	Leu	Ile	Lys	Trp	y val	ASI	Lys	Thr	Gly	
172		300					305	ŀ				210	,				1272
174	CGA	GAT	GCC	TCI	GTC	CAC	ACC	CTG	CTC	GAI	GCC	TTG	GAC	ACC	CIG	GGA	12/2
175	Arg	Asp	Ala	. Sei	val:	His	Thr	Leu	Leu	Asp	Ala	ı Leu	1 GIU	ı TILI	Leu	Gly 330	
176	315	i				320					325		ግ መመረ	י אכינ	י ייירייוי		1320
178	GAG	AGA	CTI	GCC	: AAG	CAG	AAG	ATI	GAG	GAC	CAC	TIC	, T.O.	1 601	, ICI	GGA	2020
179	Glu	ı Arg	Let	ı Ala			Lys	: TTE	GIU	34() HT:	з пес	т пес	1 561	345	Gly	
180					335 CT <i>P</i>) 	CCI	ח אאר	CCI	74C	י חדריי	ኮ GC(т. А ТО	TCC			1362
182	AAG	TTC	ATO	F TA	r Leu	GAA		. AAJ	. GC2	λer	Se	r Ala	a Mei	t. Sei	r		
		s Phe	е мет	350		ı Gı	ı Gı	, ver	35	5				360) .		
184		отап	n	m/mi/	/ ግጥጥ <i>ር 1</i>	AGG Z	ል ይ ጥር	:AGA(יידי ייני	rccc:	rggT'	r TA	CCTT'	TTTT	CTG	GAAAAAG	1422
186	TAF	1GTG1	IGAT	CTCI	7 A C. T. C.F	י ממי	PAGG	AAAG	rg Co	CACAZ	ATTG'	r CA	CATG	ACCG	GTA	CTGGAAG	1482
188	200		rccc	ATC:	ים ממי	. ግጥ ²	ACCC	AGTG	A TO	GGAA	CATC	C TG	TAAC	TTTT	CAC	TGCACTT	1542
100	CCC	1010.	7 mmm	ימיחים.	TAAGO	TG A	AATG'	rgat.	AA T	AAGG	ACAC	T AT	GGAA.	AAAA	AAA	AAAAA	1600
105	12	/ TVII	FORM	ስጥፐር ገርር	N FO	R SE) ID	NO:	2:								
197		, ±141	i) Si	EOUE	NCE (CHAR	ACTE	RIST	ICS:								
198		ν.	_,	(A)	LENG'	TH:	411	amino	ac	ids							
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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/005,842

DATE: 01/24/2002 TIME: 10:03:47

199 200	• • • • • • • • • • • • • • • • • • • •															
202	02 (ii) MOLECULE TYPE: protein															
204	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2: 6 Met Glu Gln Arg Gly Gln Asn Ala Pro Ala Ala Ser Gly Ala Arg Lys															
	Met -51		Gln	Arg	Gly	Gln	Asn -45	Ala	Pro	Ala	Ala	Ser	Gly	Ala	Arg	Lys
	Arg		Gly	Pro	Gly	Pro -30	Arg	Glu	Ala	Arg	Gly -25	Ala	Arg	Pro	Gly	Pro -20
212 213	Arg	Val	Pro	Lys	Thr -15	Leu	Val	Leu	Val	Val -10		Ala	Val	Leu	Leu -5	
215	Val	Ser	Ala	Glu		Ala	Leu	_	Thr		Gln	Asp		Ala	_	Gln
216	Gln	Δrα	λla	1 Ala	Dro	Gln	Gln	5 T.775	7 ~~	Cor	Cor	Dro	10	C1	C1	T 0
219		15					20					25			_	
222	30			Gly		35					40					45
224 225	Cys	Lys	Tyr	Gly	Gln 50	Asp	Tyr	Ser	Thr	His 55	Trp	Asn	Asp	Leu	Leu 60	Phe
227 228	Cys	Leu	Arg	Cys 65	Thr	Arg	Cys	Asp	Ser 70	Gly	Glu	Val	Glu	Leu 75	Ser	Pro
230	Cys	Thr		Thr	Arg	Asn	Thr			Gln	Cys	Glu			Thr	Phe
231	Δra	Glu	80 Glu	Asp	Sor	Dro	Clu	85 Mot	Crrc	7 ~~	Tvra	Crra	90	m h m	a 1	O
234		95					100					105			_	-
237	110			Met		115					120					125
239 240	Glu	Cys	Val	His	Lys 130	Glu	Ser	Gly	Ile	Ile 135	Ile	Gly	Val	Thr	Val 140	Ala
242 243	Ala	Val	Val	Leu 145	Ile	Val	Ala	Val	Phe 150	Val	Cys	Lys	Ser	Leu 155	Leu	Trp
245 246	Lys	Lys	Val 160	Leu	Pro	Tyr	Leu	Lys 165		Ile	Cys	Ser	Gly 170		Gly	Gly
	Asp	Pro		Arg	Val	Asp	Ara		Ser	Gln	Ara	Pro		Ala	Glu	Asn
249		175					180					185	_			_
251		vaı	Leu	Asn	GIU	11e	vaı	ser	тте	Leu	G1n 200	Pro	Thr	GIn	Val	Pro 205
		Gln	Glu	Met	Glu		Gln	Glu	Pro	Ala		Pro	Thr	Glv	Va1	
255					210					215				- _1	220	
	Met	Leu	Ser	${\tt Pro}$	Gly	Glu	Ser	Glu	His	Leu	Leu	Glu	Pro	Ala	Glu	Ala
258	_			225					230					235	•	
260 261	Glu	Arg	Ser 240	Gln	Arg	Arg	Arg	Leu 245	Leu	Val	Pro	Ala	Asn 250	Glu	Gly	Asp
	Pro	Thr		Thr	Leu	Ara	Gln		Phe	Asp	Asp	Phe		Asp	Len	Val
264		255				5	260	-1-				265		op	БСС	, 41
		Phe	Asp	Ser	Trp.		Pro	Leu	Met	Arg	Lys		Gly	Leu	Met	Asp
267						275					280					285
269 270	Asn	Glu	Ile	Lys	Val 290	Ala	Lys	Ala	Glu	Ala 295	Ala	Gly	His	Arg	Asp 300	Thr
272	Leu	Tyr	Thr	Met	Leu	Ile	Lys	Trp	Val	Asn	Lys	Thr	Gly	Arg		Ala





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TIME: 10:03:47

273				305					310					215			
275	Ser	Val	His	Thr	Leu	Leu	Asp	Ala	T.011	Glu	The	Τ	01	315		_	
276			320				-1.0-	325	шец	Gru	1111	Leu	GTA	GIU	Arg	Leu	
278	Ala	Lys	Gln	Lvs	Ile	Glu	Asp	His	T.011	Leu	602	C	330				
279		335					340	1110	Deu	ьец	ser	ser	GLY	гàг	Phe	Met	
281	Tyr	Leu	Glu	Glv	Asn	Ala	Agn	Sar	7 l n	Met	G	345					
282	350			1		355	пор	DEI	Ата	мес							
284		INF	ORMA	TON	FOR		א חד	٠ . مت	٠.		360						
286	` ') SE	DITEN	CE CI	ARACE Vagate	נ טב ומקוחי	TOMT); 10.								
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288			(1	יידי פו	YPE:	amir)	74 Y	acti	us							
289					rani				. 7 .								
290			(1	2) D. 3) Tr	OPOLO	JGA •	1450:	SIUG	те								
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297	(/ PIOCEIII																
299		Met	, cl.	z T.O.	ים מי	OCK1	PIIC	N: 5	EQ.	LD NC): 3:						
300		1	- 61	пес	ı ser	. IIII	. var	. Pro) Asp	Leu	ı Let	ı Lev	Pro	Let	ı Val	. Leu	Leu
302			ı Lov	. To:	. 17-1	5	1-	_	_		10					15	
303		GIU	т пес	тьес	7 V T	. Сту	тте	туг	Pro	Ser	Gly	v Val	Ile	: Gly	Leu	Val	Pro
305					20					25					3 0		
306		nis	, rec	r GTA	Asp	Arg	GLu	Lys	Arg	, Asp	Ser	· Val	Cys	Pro	Gln	Gly	Lys
308				33					4()					15			
309		TAT	TTE	HIS	Pro	GIn	Asn	Asn	Ser	: Ile	Cys	Cys	Thr	Lys	Cys	His	Lys
311			20					ວວ					60				
312		GIY	THE	Tyr	. Leu	Tyr	Asn	Asp	Cys	Pro	Gly	Pro	Gly	Gln	Asp	Thr	Asp
314		03					70					75					0.0
		Cys	Arg	GLu	Cys	Glu	Ser	Gly	Ser	Phe	Thr	Ala	Ser	Glu	Asn	His	Leu
315						85					90					0.5	
317		Arg	His	Cys	Leu	Ser	Cys	Ser	Lys	Cys	Arg	Lys	Glu	Met	Gly	Gln	Val
318					TOO					105					110		
320		GLU	TTE	Ser	Ser	Cys	Thr	Val	Asp	Arg	Asp	Thr	Val	Cys	Gly	Cvs	Arg
321				TTO					120					125			
323		гàг	Asn	GIn	Tyr	Arg	His	Tyr	Trp	Ser	Glu	Asn	Leu	Phe	Gln	Cvs	Phe
324			130					T35					140				
326		Asn	Cys	Ser	Leu	Cys	Leu	Asn	Gly	Thr	Val	His	Leu	Ser	Cys	Gln	Glu
327		T42					T20					155					1 ()
329		Lys	Gln	Asn	Thr	Val	Cys	Thr	Cys	His	Ala	Gly	Phe	Phe	Leu	Arσ	Glu
330						TOO					170					175	
332		Asn	Glu	Cys	Val	Ser	Cys	Ser	Asn	Cys	Lys	Lys	Ser	Leu	Glu	Cvs	Thr
333					700					185					100		
335		Lys	Leu	Cys	Leu	Pro	Gln	Ile	Glu	Asn	Val	Lys	Glv	Thr	Glu	Asp	Ser
336				133					200					205			
338		Gly	Thr	Thr	Val	Leu	Leu	Pro	Leu	Val	Ile	Phe	Phe	Glv	Len	Cve	T.OU
339			210					213					220				
341		Leu	Ser	Leu	Leu	Phe	Ile	Gly	Leu	Met	Tvr	Ara	Tvr	Gln	Δrα	Trn	Tara
342		223					230					235					240
344		Ser	Lys	Leu	Tyr	Ser	Ile	Val	Cys	Gly	Lvs	Ser	Thr	Dro	G1::	T ***	240
345						44 0					250					255	
347		Gly	Glu	Leu	Glu	Gly	Thr	Thr	Thr	Lys	Pro	T _i eu	Δla	Dro	λαν	255	Co
348					260	-				265	0	-cu	11 T C	T.T.O.	777	LT.O	ser
					-					203					270		





VERIFICATION SUMMARY

PATENT APPLICATION: US/10/005,842

DATE: 01/24/2002

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Input Set : N:\Crf3\RULE60\10005842.raw Output Set: N:\CRF3\01242002\J005842.raw

L:30 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]

L:31 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]